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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: SHUO-YEN ROBERT LI )  
Application Serial No.: 09/882,099 ) Attorney Docket No.: IT0074-US  
Filed: June 15, 2001 )  
Title: CONDITIONALLY NONBLOCKING )  
SWITCH OF THE CIRCULAR- )  
UNIMODAL TYPE )

**SUBMISSION OF REVOCATION OF POWER OF ATTORNEY**  
**AND GRANT OF POWER OF ATTORNEY**

Assistant Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

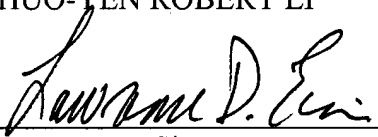
Applicants hereby submit the attached Revocation of Power of Attorney and Grant of Power of Attorney in the above-identified application. Should there be any questions with respect to this submission a representative of the Patent Office is requested to contact the undersigned.

Respectfully submitted,

SHUO-YEN ROBERT LI

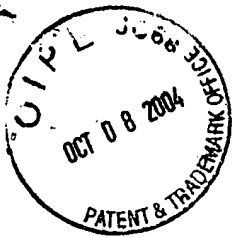
Date: October 8, 2004

By:

  
Lawrence D. Eisen  
Registration No. 41,009

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703-770-7900

Customer No. 28970



**PATENT**  
**Customer No. 28970**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Patent Application and Patent Numbers:      See attached "Schedule A"

**REVOCATION OF POWER OF ATTORNEY**  
**AND GRANT OF NEW POWER OF ATTORNEY**

The undersigned, a representative authorized to sign on behalf of the assignee owning all of the interest in the listed and pending patent applications and issued patents on the attached sheet (Schedule A), hereby revokes all previous powers of attorney or authorization of agent granted in these patents before the date of execution hereof. The undersigned verifies that **INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE** is the assignee of the entire right, title, and interest in each of the pending patent applications and issued patents listed on the attached Schedule A and is identified as the assignee by assignments from the inventor(s) in the listed pending patent applications and issued patents as filed accordingly at the U.S. Patent and Trademark Office. The undersigned certifies that the evidentiary documents have been reviewed and to the best of the undersigned's knowledge and belief, title in each of the pending patent applications and issued patents listed on the attached Schedule A is in the assignee **INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE**.

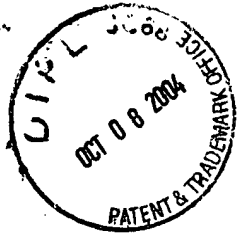
By the undersigned's signature, **INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE** hereby grants power of attorney for each of the pending patent applications and issued patents listed on the attached Schedule A to **SHAW PITTMAN LLP**, Michael D. Bednarek, Reg. No. 32,329; Lawrence J. Gotts, Reg. No. 31,163; Aslan Baghdadi, Reg. No. 34,542; Yitai Hu, Reg. No. 40,653; Elizabeth M. Roesel, Reg. No. 34,878; David C. Isaacson, Reg. No. 38,500; Steven P. Arnheim, Reg. No. 43, 475; Poh C. Chua, Reg. No. 44,615; Michael A. Oblon, Reg. No. 42,956; Lawrence D. Eisen, Reg. No. 41,009; Mark Koehn, Reg. No. 46,271; Michelle S. Marks, Reg. No. 41,971; Brett C. Martin, Reg. No. 52,000; Chad D. Wells, Reg. No. 50,875; Tara L. Hutchings, Reg. No. 46,559; John Kasha, Reg. No. 53,100; Ann P. McGeehan, Reg. No. 45,839; June E. Cohan, Reg. No. 43,741; and Joanne Kim, Reg. No. 51,193, both jointly and separately as its attorneys with full power of substitution and revocation, to transact all business in the Patent and Trademark Office connected with each of the pending patent applications and issued patents listed on the attached Schedule A.

Please send all future correspondence concerning the pending patent applications and issued patents listed on the attached Schedule A to SHAW PITTMAN LLP at the following address:

Shaw Pittman LLP  
1650 Tysons Blvd.  
McLean, Virginia 22102

Dated: Sept. 9, 2004

By: Benjamin Wang  
(name) Benjamin Wang  
(title) Deputy General Director  
Industrial Technology Research Institute



## Schedule A

| Filing Date | Title   | Inventors                                      | Application Number | Publication Number | Patent Number |
|-------------|---|--|--------------------|--------------------|---------------|
| 11-20-00    | RUNNING-SUM ADDER NETWORKS DETERMINED BY RECURSIVE CONSTRUCTION OF MULTI-STAGE NETWORKS | Shuo-Yen Robert Li (李碩彥)                       | 09/716,574         |                    | 6,591,285     |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE COMPRESSOR TYPE                                 | Shuo-Yen Robert Li (李碩彥)                       | 09/882,104         | US 2002-0031121 A1 |               |
| 06-15-01    | CONFIGURING EQUIVALENT MULTI-STAGE INTERCONNECTION NETWORKS IN THE BIT-PERMUTING STYLE  | Shuo-Yen Robert Li (李碩彥)<br>Lu Wa Chiang (蔣路樺) | 09/882,113         | US 2002-0031118 A1 |               |
| 06-15-01    | SWITCHING CONCENTRATOR  | Shuo-Yen Robert Li (李碩彥)                       | 09/882,439         | US 2001-0055304 A1 |               |
| 06-15-01    | SELF-ROUTING DEVICE FOR SWITCHING PACKETS OF DIFFERENT LENGTHS                          | Shuo-Yen Robert Li (李碩彥)                       | 09/882,317         | US 2001-0053157 A1 |               |
| 06-15-01    | PACKET SWITCH WITH ONE-STOP BUFFER IN MEMORY WITH MASSIVE PARALLEL ACCESS               | Shuo-Yen Robert Li (李碩彥)<br>Jian Zhu (朱健)      | 09/882,760         | US 2001-0055304 A1 |               |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE DECOMPRESSOR TYPE                               | Shuo-Yen Robert Li (李碩彥)                       | 09/882,133         | US 2003-0063602 A1 |               |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE EXPANDER TYPE                                   | Shuo-Yen Robert Li (李碩彥)                       | 09/882,087         | US 2002-0039363 A1 |               |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED COMPRESSOR TYPE                        | Shuo-Yen Robert Li (李碩彥)                       | 09/882,761         | US 2002-0094151 A1 |               |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED  | Shuo-Yen Robert Li (李碩彥)                       | 09/881,827         | US 2002-0031117 A1 |               |

| Filing Date | Title   | Inventors                | Application Number | Publication Number | Patent Number |
|-------------|---|--------------------------|--------------------|--------------------|---------------|
|             | DECOMPRESSOR TYPE   |                          |                    |                    |               |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED EXPANDER TYPE                                | Shuo-Yen Robert Li (李碩彥) | 09/882,129         | US 2002-0031110 A1 |               |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE CIRCULAR-UNIMODAL TYPE                                | Shuo-Yen Robert Li (李碩彥) | 09/882,099         | US 2002-0037005 A1 |               |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE UNIMODAL-CIRCULAR TYPE                                | Shuo-Yen Robert Li (李碩彥) | 09/882,202         | US 2002-0027904 A1 | 6,657,998     |
| 06-15-01    | CONDITIONALLY NONBLOCKING SWITCH OF THE CIRCULAR EXPANDER TYPE                                | Shuo-Yen Robert Li (李碩彥) | 09/882,139         | US 2003-0086420 A1 |               |
| 06-15-01    | GENERALIZED DIVIDE-AND-CONQUER NETWORKS   | Shuo-Yen Robert Li (李碩彥) | 09/882,423         | US 2002-0097714 A1 |               |
| 06-15-01    | GENERAL SELF-ROUTING CONTROL MECHANISM OVER BIT-PERMUTING SWITCHING NETWORKS                  | Shuo-Yen Robert Li (李碩彥) | 09/882,005         | US 2002-0051447 A1 |               |
| 06-15-01    | SELF-ROUTING CONTROL MECHANISM OVER MULTISTAGE INTERCONNECTION NETWORKS OF CONCENTRATORS      | Shuo-Yen Robert Li (李碩彥) | 09/882,328         | US 2002-0118677 A1 |               |
| 06-15-01    | MULTICAST CONCENTRATORS   | Shuo-Yen Robert Li (李碩彥) | 09/882,413         | US 2003-0053456 A1 |               |
| 06-15-01    | GENERAL SELF-ROUTING MECHANISM FOR MULTICASTING CONTROL OVER BIT-PERMUTING SWITCHING NETWORKS | Shuo-Yen Robert Li (李碩彥) | 09/882,075         | US 2002-0024951 A1 |               |
| 06-15-01    | PHYSICAL IMPLEMENTATION OF SWITCHING FABRICS CONSTRUCTED FROM RECURSIVE                       | Shuo-Yen Robert Li (李碩彥) | 09/882,410         | US 2002-0093950 A1 |               |

| Filing Date | Title  | Inventors  | Application Number | Publication Number | Patent Number |
|-------------|--|--|--------------------|--------------------|---------------|
|             | 2-STAGE INTERCONNECTION  |  |                    |                    |               |
| 06-15-01    | ROUTING SCHEMES FOR PACKET SWITCHING NETWORKS  | Shuo-Yen Robert Li (李碩彥)<br>Jian Zhu (朱鍵)<br>Chu Man Lau (劉主民)<br>Wan Lam (林雲) | 09/881,870         | US 2004-0066799 A1 |               |
| 06-15-01    | MULTISTAGE INTERCONNECTION NETWORKS OF MULTICAST CONCENTRATORS WITH SELF-ROUTING CONTROL MECHANISM | Shuo-Yen Robert Li (李碩彥)   | 09/882,112         | US 2002-0031124 A1 |               |
| 02-23-02    | SCALABLE 2-STAGE INTERCONNECTIONS  | Jian Zhu (朱鍵)<br>Shuo-Yen Robert Li (李碩彥)<br>Lu Wa Chiang (蔣路樺)                | 10/082,449         | US 2003-0112797 A1 |               |
| 02-23-02    | OPTIMIZING SWITCHING ELEMENT FOR MINIMAL LATENCY   | Jian Zhu (朱鍵)<br>Shuo-Yen Robert Li (李碩彥)                                      | 10/082,450         | US 2003-0118054 A1 |               |